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XPEED Indoor Series

INSTALLATION AND OPERATION MANUAL Ver 1.0

Indoor Speed Dome Camera / S1000 Series

CNB TECHNOLOGY Inc.

This lightning flash with arrowhead symbol is intended to alert the user to the presence of un-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This exclamation point symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Important Safety Instructions

1. Read Instructions
Read all of the safety and operating instructions before using the product.

2. Attachments / Accessories
Do not use attachments or accessories unless recommended by the appliance manufacturer as they may cause hazards, damage product and void warranty.

3. Water and Moisture
Do not use this product near water or moisture.

4. Installation
Do not place or mount this product in or on an unstable or improperly supported location. Improperly installed product may fall, causing serious injury to a child or adult, and damage to the product. Use only with a mounting device recommended by the manufacturer, or sold with the product. To insure proper mounting, follow the manufacturer's instructions and use only mounting accessories recommended by manufacturer.

5. Power Source
This product should be operated only from the type of power source indicated on the marking label.

Precautions

■ Operating
- Before using, make sure power supply and others are properly connected.
- While operating, if any abnormal condition or malfunction is observed, stop using the camera immediately and then contact your local dealer.

■ Handling
- Do not disassemble or tamper with parts inside the camera.
- Do not drop or subject the camera to shock and vibration as this can damage camera.
- Care must be taken when you clean the clear dome cover. Especially, scratch and dust will ruin your quality of camera.

■ Installation and Storage
- Do not install the camera in areas of extreme temperature, which exceed the allowable range.
- Avoid installing in humid or dusty places.
- Avoid installing in places where radiation is present.
- Avoid installing in places where there are strong magnetic fields and electric signals.
- Avoid installing in places where the camera would be subject to strong vibrations.
- Never expose the camera to rain and water.

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1. General

Features

■ Camera Specifications

- Image Pick-up Device : 1/4" Interline Transfer CCD

- Zoom Magnification : 30x Optical Zoom, 10x Digital Zoom (Max. 300x Zoom) → Model S1565N(P)(X)
  26x Optical Zoom, 12x Digital Zoom (Max. 312x Zoom) → Model S1465N(P)X
  22x Optical Zoom, 10x Digital Zoom (Max. 220x Zoom) → Model S1265N(P)
  18x Optical Zoom, 12x Digital Zoom (Max. 216x Zoom) → Model S1665N(P)X

- Day & Night Function
- Various Focus Mode : Auto-Focus / Manual Focus / Semi-Auto Focus.
- Independent & Simultaneous Camera Characteristic Setup in Preset operation

■ Powerful Pan/Tilt Functions

- Max. 360°/sec high speed Pan/Tilt Motion
- Using Vector Drive Technology, Pan/Tilt motions are accomplished in a shortest path.
  As a result, time to target view is reduced significantly and the video on the monitor is very natural to watch.
- For jog operation using a controller, since ultra slow speed 0.05°/sec can be reached, it is very easy to locate camera to desired target view. Additionally it is easy to move camera to a desired position with zoom-proportional pan/tilt movement.

■ Preset, Pattern, Swing, Group, Privacy Mask and More...

- Max. 127 Presets are assignable and characteristics of each preset can be set up independently, such as White Balance, Auto Exposure, Label and so on.
- Max. 8 set of Swing action can be stored. This enables to move camera repetitively between two preset positions with designated speed.
- Max. 4 of Patterns can be recorded and played back. This enables to move camera to follow any trajectory operated by joystick as closely as possible.
- Max. 8 set of Group action can be stored. This enables to move camera repetitively with combination of Preset or Pattern or Swing. A Group is composed of max. 20 entities of Preset/Pattern/Swings.
- Privacy Masks are assignable, not to intrude on other's privacy. (8 Privacy Zones)
  → Only available with Models S1465N(P)X and S1665N(P)X.

■ PTZ(Pan/Tilt/Zoom) Control

- With RS-485 communication, max. 255 of cameras can be controlled at the same time.
- Pelco-D or Pelco-P protocol can be selected as a control protocol in the current version of firmware.

■ OSD(On Screen Display) Menu

- OSD menu is provided to display the status of camera and to configure the functions interactively.
- The information such as Camera ID, Pan/Tilt Angle, Alarm input and Preset can be displayed on screen.

■ Alarm I/O Functions

- 4 alarm sensor inputs & 2 relay outputs are available.
- To reject external electric noise and shock perfectly, alarm sensor input is decoupled with photo coupler & relay output type.
- The signal range of sensor input is from DC 5.0 to 12.0 volts & relay output is max. 250VAC, 3A or 28VDC, 3A to adopt various applications.
- If an external sensor is activated, camera can be set to move to the corresponding Preset position.
  And a relay can be set to activate when it shifts to the preset position.

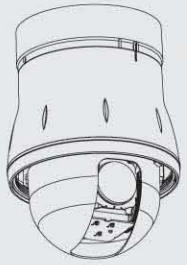
■ Reserved Presets for Special Purpose

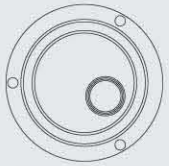
- Most camera characteristics can be set up easily and directly with reserved preset, not entering into OSD menu.
  For more information, refer to "Reserved Preset" in this manual.

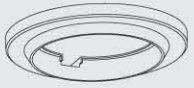
1. General

Components

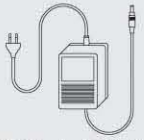
■ Basic Components

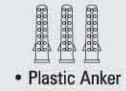

• Main Body & Mounting Base


• Rubber Gasket


• Decorative Ring

• Clear Bubble


• AC Adaptor (Option)


• Plastic Anker

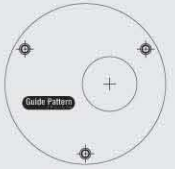
• Self-tapping Screw

• Self-drilling Screw

• Manual

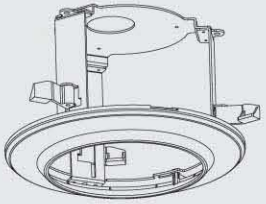
• TORX Screw

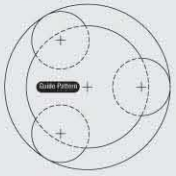
• L-Style TORX Wrench



• Guide Pattern

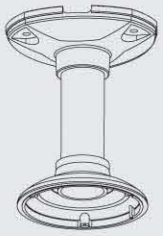
■ Other Components (available to be ordered separately)


• In-Ceiling Mount

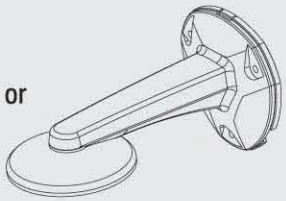


• Guide Pattern

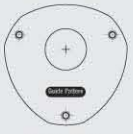
• Sems Screw


• Pendant Mount

or


• Wall Mount

• Sems Screw

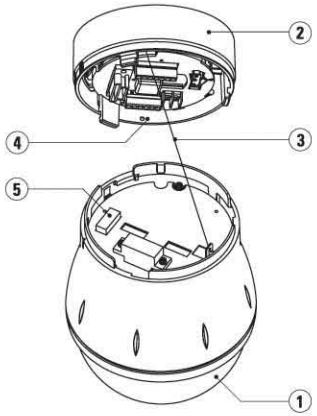


• Guide Pattern

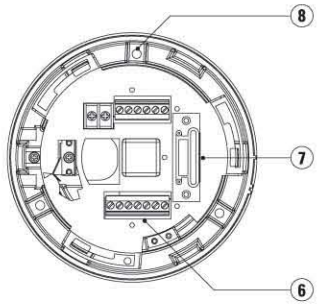
• Anchor Bolt

1. General

Names and Functions of the Components



<Main Body/Mounting Base>



<Mounting Base>

① **Bubble** If the bubble is damaged or soiled by scratching or foreign matters, the damaged/dirty part will be visible on the screen.
Therefore, do not undo the protective cover until the installation is complete.

② **Mounting Base** The mounting base is to used to install the camera onto the ceiling or camera brackets. Disassemble the mounting base first and install it onto ceiling or brackets and then assemble it with the main body.

③ **Anti-drop Spring & Hook** This is used to prevent the main body of camera from dropping during installation. Attach the anti-drop spring to the hook when assembling the main body to the mounting base.

④ **TORX Screw** When the main body and the mounting base are assembled, be sure to insert the screw to the mounting base, otherwise there is a risk of the main body dropping from the mounting base by vibration, jarring or movement.

⑤ **Fuse** If a fuse is blown by over-voltage current, change it with a new one, and contact the manufacturer or dealer to check the cause of the over-voltage and remove it. The breaking capacity of a fuse is 250V, 2A.

⑥ **Cabling Terminal Block** During installation, Power, Video, Communication, Alarm I/O cables are connected on to this cabling terminal block.

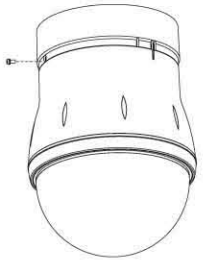
⑦ **Main Connector** With this connector, I/O board mounting base and the dome drive are connected.

⑧ **Mounting Hole** Fastening the mounting base to the ceiling or camera brackets using the three mounting screws provided.

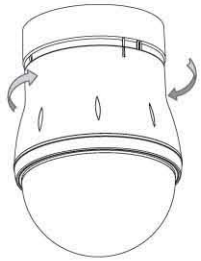
2. Installation

Disassembling the Mounting Base

① Loosen the fixing screw

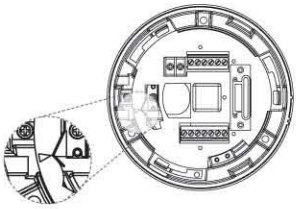


② Slightly twist the main body and detach it from the mounting base

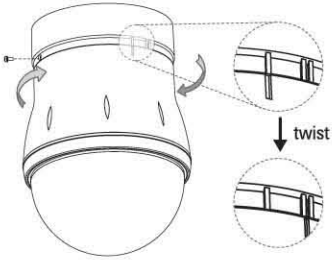


Assembling the Mounting Base

① Align the plate spring with the arrow as shown in the circle.



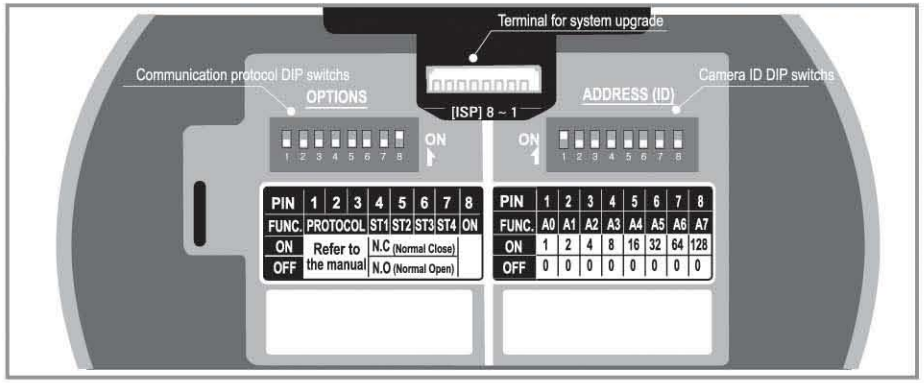
② Insert the main body into the base with the molding lines on each part being aligned and fasten the main body, insert the screw and fasten.



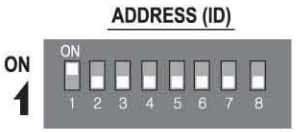
2. Installation

DIP Switch Setup

■ Before installing the camera, you should set the DIP switches to configure the camera ID, communication protocol. Do not use the system upgrade terminal.


Terminal for system upgrade
Communication protocol DIP switchs
OPTIONS
[ISP] 8 ~ 1
ADDRESS (ID)
Camera ID DIP switchs
ON
PIN 1 2 3 4 5 6 7 8
FUNC. PROTOCOL ST1 ST2 ST3 ST4 ON
ON Refer to N.C (Normal Close)
OFF the manual N.O (Normal Open)
PIN 1 2 3 4 5 6 7 8
FUNC. A0 A1 A2 A3 A4 A5 A6 A7
ON 1 2 4 8 16 32 64 128
OFF 0 0 0 0 0 0 0 0

■ Camera ID Setup

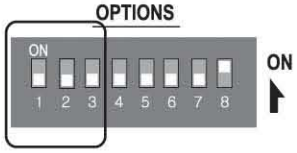


• ID number of camera is set using binary number. The example is shown bellow.

Pin	1	2	3	4	5	6	7	8
ID Value	1	2	4	8	16	32	64	128
ex) ID=5	on	off	on	off	off	off	off	off
ex) ID=10	off	on	off	on	off	off	off	off

• The range of ID 1~255. **Do not use 0 as camera ID**.
Factory default of Camera ID is 1.
• If you want to control a certain camera, you must match the camera ID with Cam ID setting of DVR or Controller.

■ Communication Protocol Setup



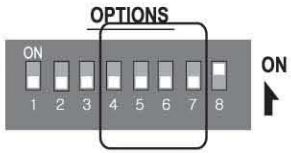
• Select the approriate Protocol with DIP switch combination.

Switch state			Protocol
P0 (Pin 1)	P1 (Pin 2)	P2 (Pin 3)	
OFF	OFF	OFF	PELCO-D, 2400bps
ON	OFF	OFF	PELCO-D, 9600bps
OFF	ON	OFF	PELCO-P, 4800bps
ON	ON	OFF	PELCO-P, 9600bps
Others			Reserved

• If you want to control using DVR or P/T controller, their protocol must be identical to camera. Otherwise, you can not control the camera.
• It you changed camera protocol by changing DIP S/W, the change will be effective after you reboot the camera.
• Factory default of protocol is "Pelco-D, 2400bps".

2. Installation

■ Input Sensor Active Type



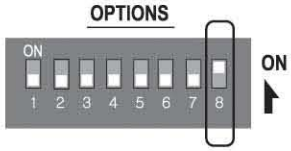
• When a sensor input is used, its functional type should be set. There are two types; Normal Open type and Normal Close type.

- Normal Open : Voltage is let out when the sensor is activated
- Normal Close : Voltage is let out when the sensor is not activated

Pin	Switch position	Sensor type
ST1 (Pin 4)	ON	Sensor 1 Normal Close
	OFF	Sensor 1 Normal Open
ST2 (Pin 5)	ON	Sensor 2 Normal Close
	OFF	Sensor 2 Normal Open
ST3 (Pin 6)	ON	Sensor 3 Normal Close
	OFF	Sensor 3 Normal Open
ST4 (Pin 7)	ON	Sensor 4 Normal Close
	OFF	Sensor 4 Normal Open

• If a wrong type of sensor is selected, it activates in the opposite way to the sensor input.

■ Reserved for Supplier



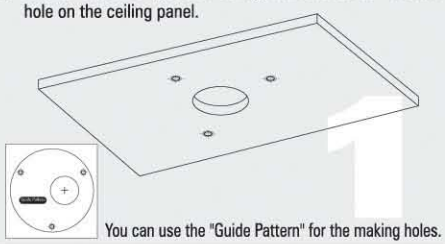
• Since Pin 8 is only for supplier, **DO NOT CHANGE ITS ORIGINAL STATE.** if you change it, proper operation can not be achieved.

- Pin 8 : Factory default is ON state. This Pin is used for system firmware upgrade. **DO NOT CHANGE THIS PIN.**

2. Installation

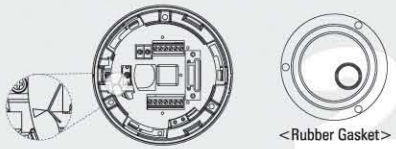
Installation Directly on the Ceiling

① To pass cables to upside of ceiling, make about 50~60mm hole on the ceiling panel.

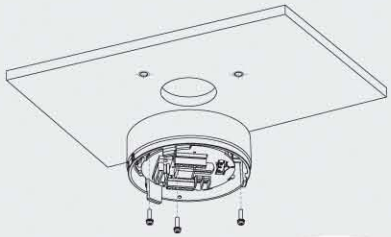


You can use the "Guide Pattern" for the making holes.

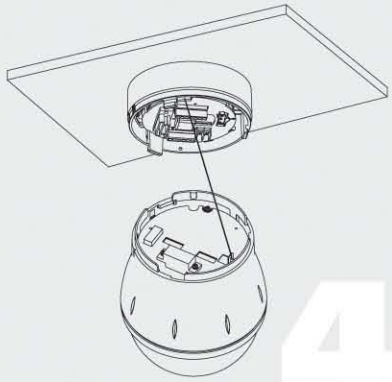
② Detach the marked part from the rubber gasket and align the plate spring with the arrow as shown in the circle.



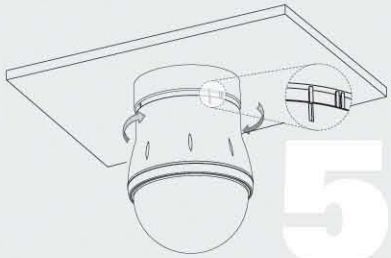
③ Put the rubber gasket back on the mounting base and attach the mounting base to the hole in the ceiling and connect a wire to the wiring terminal.



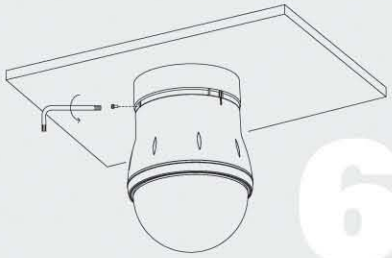
④ Attach the anti-drop spring to the main body of camera.



⑤ Insert the main body of camera into the mounting base with the molding lines on each part being aligned and fasten to the main body.



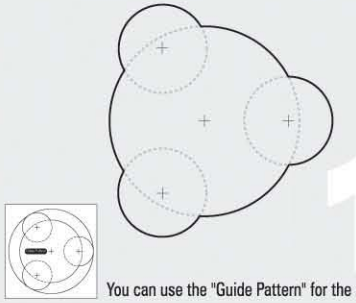
⑥ Insert the fixing screw and tighten.



2. Installation

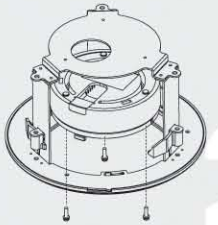
Installation using the In-Ceiling Mount

① Drill a hole in the ceiling as shown in the drawing below.

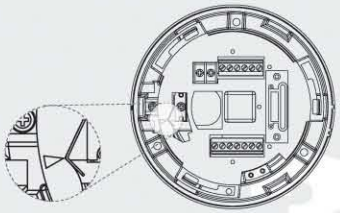


You can use the "Guide Pattern" for the making holes.

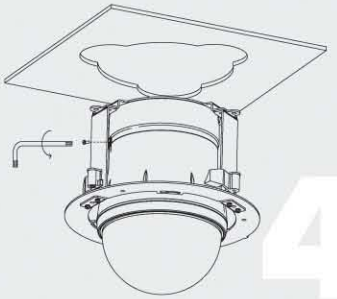
② Assemble the mounting base with a bracket which goes into the ceiling.



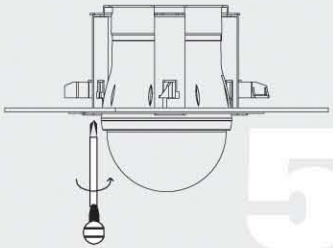
③ Align the plate spring with the arrow as shown in the circle .



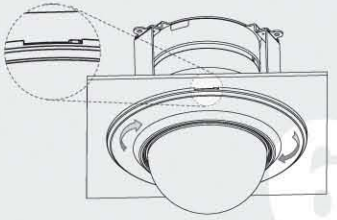
④ Assemble the main body with the mounting base and fasten with the fixing screw supplied.



⑤ Turn the 3 mounting screws on the bracket clockwise until they are fully fasten to the ceiling.



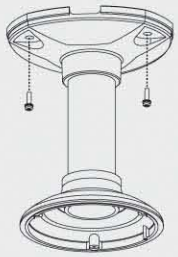
⑥ Put a decorative ring which comes with the bracket onto the assembly by aligning the circled parts and turning clockwise.



2. Installation

Installation using the Pendant Mount

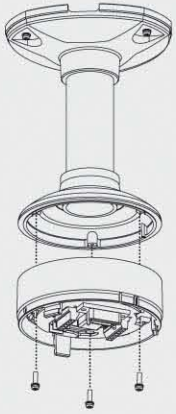
① Screw the ceiling mount to the ceiling with 3 screws.



You can use the "Guide Pattern" for the making holes.

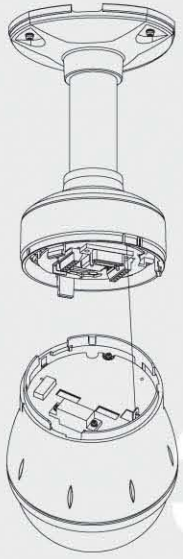
1

② Assemble the mounting base to the bracket attached to the ceiling. Do not use a rubber gasket here.
Align the plate spring with the arrow.
(refer to the assembling mounting base description part)



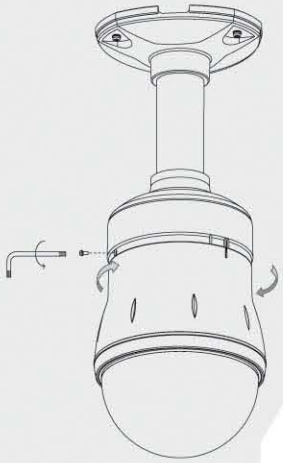
2

③ Attach the anti-drop spring and assemble the main body with the mounting base.



3

④ Turn and align the main body, insert the fixing screw and tighten.

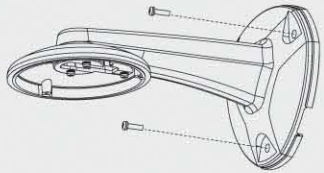


4

2. Installation

Installation using the Wall Mount

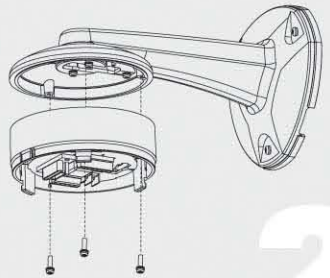
① Screw the wall mount to the wall with 3 screws.



You can use the "Guide Pattern" for the making holes.

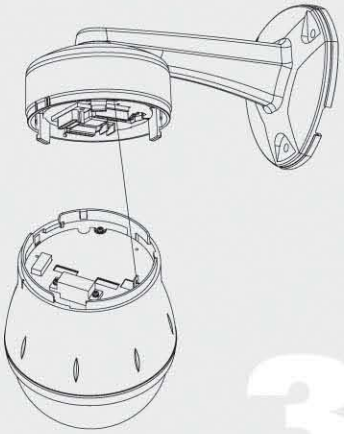
1

② Assemble the mounting base to the bracket attached to the wall. Do not use a rubber gasket here.
Align the plate spring with the arrow
(refer to the assembling mounting base description part)



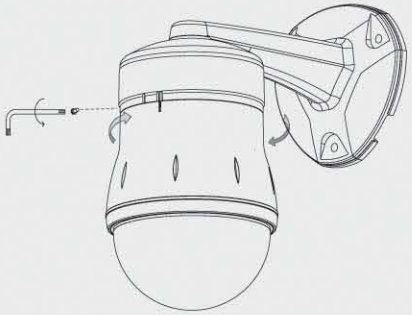
2

③ Attach the anti-drop spring and assemble the main body with the mounting base.



3

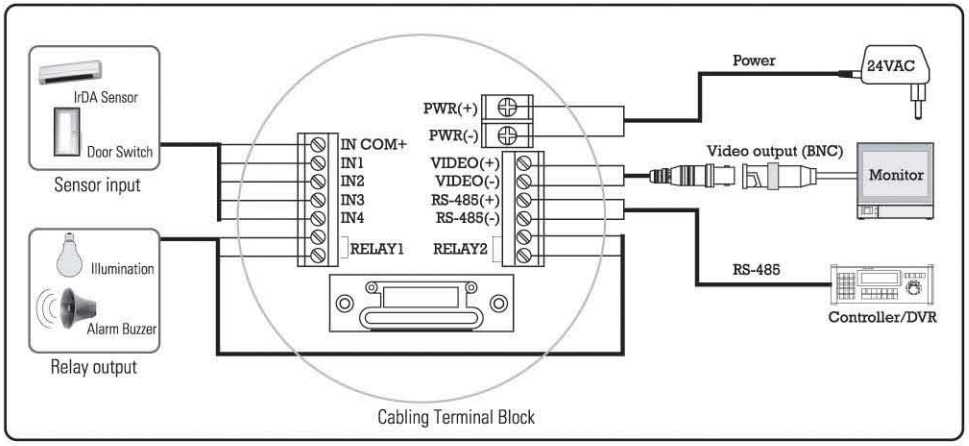
④ Turn and align the main body, insert bolts and tighten.



4

2. Installation

Wire Connections



■ Power Connection

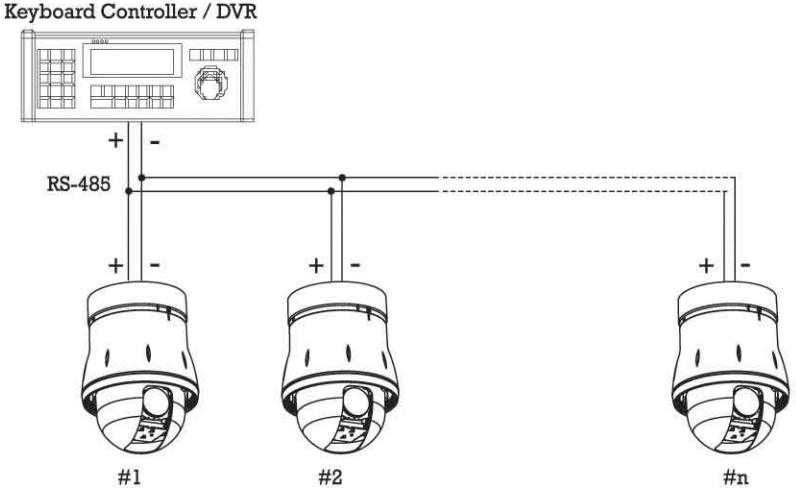
- The standard power for the system is 24VAC / 1A.
  Please, check the voltage and current capacity of rated power carefully.

■ Video Connection

- Connect with BNC coaxial cable.

■ RS-485 Communication

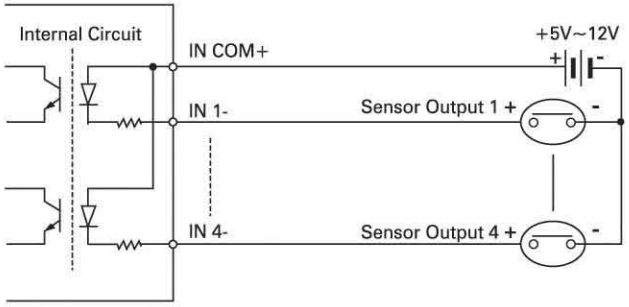
- For PTZ control, connect this line to keyboard and DVR. To control multiple cameras at the same time, RS-485 communication lines of them is connected in parallel as shown below.



2. Installation

■ Sensor Input/Relay Output

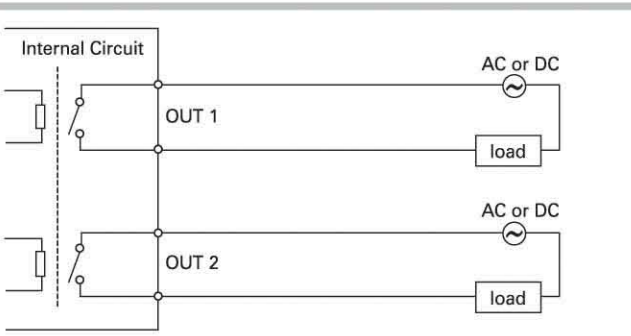
- Sensor input connection



Before connecting sensors, check driving voltage and output signal type of the sensor.
Since output signal types of the sensors are divided into Open Collector and Voltage Output type in general, the cabling must be done properly after considering these types.
Also, the sensor type, i.e. "Normal Open" or "Normal Close" in DIP switch in main body of camera must be set properly.

Signal Line	Description
IN COM+	Connect (+) cable of electric power source for Sensors to this port as shown in the circuit above.
IN1 -, IN2 -, IN3 -, In4 -	Connect output of sensors for each port as shown in the circuit above.

- Relay output connection



Max. load capacity is as below.

Driving Power	DC	110VAC	220VAC
Max. Capacity	28VDC, 3A	110VAC, 3A	250VAC, 3A

3. Operation

Check Points before Operation

- Before power is applied, please check the cables carefully.
- The camera ID of the controller must be identical to that of the target camera.
  The camera ID can be checked by reading DIP switches of the camera.
- If your controller supports multi-protocols, the protocol must be changed to match to that of the camera.
- If you changed camera protocol by changing DIP switches, the change will be effective after you reboot the camera.
- Since the operation method can be different for each controller available, refer to the manual for your controller if camera can not be controlled properly. The operation of this manual is based on the standard Pelco Controller.

Preset and Pattern Function Pre-Check

- Check how to operate preset and pattern function with controller or DVR in advance to operate camera function fully when using controller or DVR.
- Refer to the following table when using standard Pelco protocol controller.

< Go Preset >	Input [Preset Number] and press [Preset] button shortly.
< Set Preset >	Input [Preset Number] and press [Preset] button for more than 2 seconds.
< Run Pattern >	Input [Pattern Number] and press [Pattern] button shortly.
< Set Pattern >	Input [Pattern Number] and press [Pattern] button for more than 2 seconds.

- If controller or DVR has no pattern button or function, use shortcut keys with preset numbers. For more information, refer to "Reserved Preset" in this manual.

Starting OSD Menu

- Function : Using the OSD menu, Preset, Pattern, Swing, Group and Alarm I/O function can be configured for each application.
- Enter Menu : <Go Preset> [95]

Reserved Preset

- Description Some Preset numbers are reserved to special functions.
- Function

<Go Preset> [95] : Enters into OSD menu
<Go Preset> [131~134] : Runs Pattern Function 1 ~ 4
<Go Preset> [141~148] : Runs Swing Function 1 ~ 8
<Go Preset> [151~158] : Runs Group Function 1 ~ 8
<Go Preset> [161~162] : Sets Relay Output 1 ~ 2 to OFF
<Set Preset> [161~162] : Sets Relay Output 1 ~ 2 to ON
<Go Preset> [170] : Sets Camera BLC Mode to OFF
<Go Preset> [171] : Sets Camera BLC Mode to ON
<Go Preset> [172] : Sets Camera Flickerless Mode to OFF
<Go Preset> [173] : Sets Camera Flickerless Mode to ON
<Go Preset> [174] : Sets Camera Focus Mode to AUTO
<Go Preset> [175] : Sets Camera Focus Mode to MANUAL
<Go Preset> [176] : Sets Camera Focus Mode to SEMIAUTO
<Go Preset> [177] : Sets Day & Night Mode to AUTO
<Go Preset> [178] : Sets Day & Night Mode to NIGHT
<Go Preset> [179] : Sets Day & Night Mode to DAY
<Go Preset> [180] : Sets Camera Line-Lock Mode to OFF
<Go Preset> [181] : Sets Camera Line-Lock Mode to ON
<Go Preset> [190] : Sets OSD Display Mode to AUTO (Except Privacy Mask)
<Go Preset> [191] : Sets OSD Display Mode to OFF (Except Privacy Mask)
<Go Preset> [192] : Setting OSD Display Mode to ON (Except Privacy Mask)
<Go Preset> [193] : Sets all Privacy Mask Display to OFF
<Go Preset> [194] : Sets all Privacy Mask Display to ON

XPEED Indoor Speed Dome Series

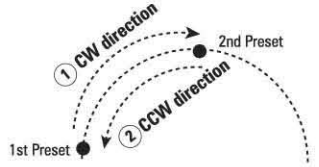
3. Operation

Preset

- **Function** Max. 127 positions can be stored as Preset position. The Preset number can be assigned from 1 to 128, but 95 is reserved for starting OSD menu.
  Camera characteristics (i.e. White Balance, Auto Exposure) can be set up independently for each preset. Label should be blank and Relay Outputs should be set to OFF as default. "Camera Adjust" should be set "GLOBAL" as default. All characteristics can be set up in OSD menu.
- **Set Preset** <Set Preset> [1~128]
- **Run Preset** <Go Preset> [1~128]
- **Delete Preset** To delete Preset, use OSD menu.

Swing

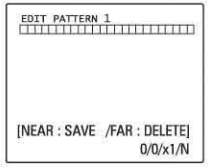
- **Function** By using Swing function, you can make camera to move between 2 Preset positions repeatedly. When swing function runs, camera moves from the preset assigned as the 1st point to the preset assigned as the 2nd point in CW(Clockwise) direction. Then camera moves from the preset assigned as the 2nd point to the preset assigned as the 1st point in CCW(Counterclockwise) direction.



  In case that the preset assigned as the 1st point is same as the preset assigned as the 2nd point, camera turns on its axis by 360° in CW(Clockwise) direction and then it turns on its axis by 360° in CCW(Counterclockwise) direction. Speed can be set up from 1°/sec to 180°/sec.
- **Set Swing** To set Swing, use OSD menu.
- **Run Swing** Method 1) <Run Pattern> [Swing NO.+10] → ex) Run Swing 3 : <Run Pattern> [13]
  Method 2) <Go Preset> [Swing NO.+140] → ex) Run Swing 3 : <Go Preset> [143]
- **Deleting Swing** To delete Swing, use OSD menu.

Pattern

- **Function** Pattern Function is that a camera memorizes the path (mostly curve path) by joystick of controller and preset move functions for assigned time and revives the path exactly as it memorized.
  4 Patterns are available and Maximum 1200 communication commands can be stored in a pattern.
- **Setting Pattern** Pattern can be created by one of following two methods.



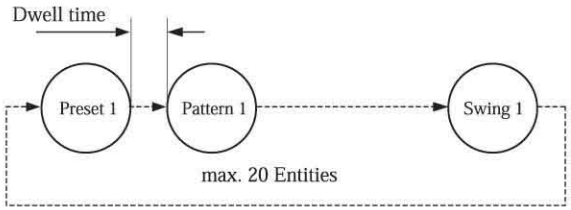
  Method 1) <Set Pattern> [Pattern NO.]
  - Pattern editing screen is displayed as bellow.
  - Movement by Joystick and preset movement can be memorized in a pattern.
  - The rest memory size is displayed in progress bar.
  - To save the recording, press **NEAR** key and to cancel, press **FAR** key.

  Method 2) OSD Using OSD Menu: See the section "How to use OSD Menu".
- **Run Pattern** Method 1) <Run Pattern> [Pattern NO.] → ex) Run Pattern 2 : <Run Pattern> [2]
  Method 2) <Go Preset> [Pattern NO.+130] → ex) Run Pattern 2: <Go Preset> [132]
- **Delete Pattern** Use OSD menu to delete a Pattern.

3. Operation

Group

- **Function** The group function allows running sequence of Presets, Pattern and/or Swings. Max. 8 group can be stored. Each group can have max. 20 action entities which can be preset, pattern or swing. Preset speed can be set up and the repeat number of Pattern & Swing can be set up in Group setup. Dwell time between actions can be set up also.



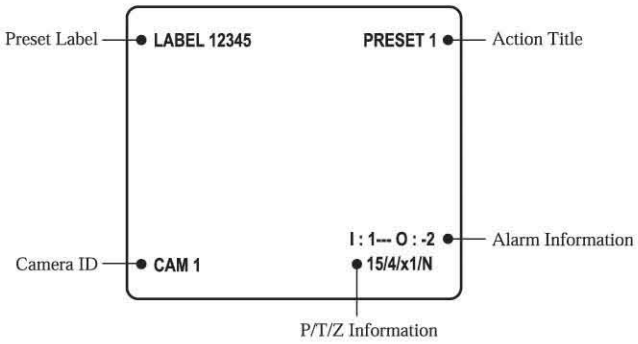
- **Setting Group** Use OSD Menu to create a Group.
- **Run Group** 1) <Run Pattern> [Group NO.+20] ⟶ ex) Run Group 7 : <Run Pattern> [27]
  2) <Go Preset> [Group NO.+150] ⟶ ex) Run Group 7 : <Go Preset> [157]
- **Deleting Group** Use OSD Menu to delete.

Other Functions

- **Power Up Action** This function enables to resume the last action executed before power down. Most of actions such as Preset, Pattern, Swing and Group are available for this function but Jog actions are not available to resume.
- **Auto Flip** In case that tilt angle arrives at the top of tilt orbit (90°), the zoom module camera pans 180° to keep tracing targets. If this function is set to OFF, tilt movement range is 0 ~ 95°.
- **Park Action** This function enables to locate the camera to specific position automatically if operator doesn't operate the controller for a while. The Park Time can be defined as an interval from 1 minute to 4 hours.
- **Alarm Input/Output** 4 Alarm Inputs and 2 Alarm Outputs (Relay output) are used. If an external sensor is activated, camera can be set to move to corresponding preset position. Also, the output relay can be matched to some specific preset positions to do counteractions such as turning on the light or sounding the alarm. It is noted that the latest alarm input is effective if multiple sensors are activated.
- **Privacy Zone Mask** To protect privacy, Max. 8 Privacy Masks can be created on the arbitrary position to hide objects such as windows, shops or private house. With Spherical Coordinates system, powerful Privacy Zone Mask function is possible. This function is only available with Models S1465N(P)X and S1665N(P)X .
- **Global/Local Image Setup** WB(White Balance) and AE(Auto Exposure) can be set up independently for each preset. There are 2 modes, "Global" mode & "Local" mode. The Global mode means that WB or AE can be set up totally and simultaneously for all presets in "ZOOM CAMERA SETUP" menu. The Local mode means that WB or AE can be set up independently or separately for each preset in each preset setup menu. Each Local WB/AE value should activate correspondingly when camera arrives at each preset location. During jog operation, Global WB/AE value should be applied. All Local WB/AE value do not change although Global WB/AE value changes.
- **SemiAuto Focus** This mode exchanges focus mode automatically between Manual Focus mode and Auto Focus mode by operation. Manual Focus mode activates in preset operation and Auto Focus mode activates during jog operation. With Manual mode at presets, Focus data is memorized in each preset in advance and camera calls focus data in correspondence with presets as soon as camera arrives at a preset. It should shorten time to get focuses. Focus mode changes to Auto Focus mode automatically when jog operation starts.

4. OSD Menu

OSD Display of Main Screen



- **P/T/Z Information** Current Pan/Tilt angle in degree, zoom magnification and a compass direction.
- **Camera ID** Current Camera ID(Address).
- **Action Title** Followings are possible Action Titles and their meaning.
  "SET PRESET xxx" ⟶ When Preset xxx is stored
  "PRESET xxx" ⟶ When camera reach to Preset xxx
  "PATTERN x" ⟶ When Pattern x is in action
  "SWGx /PRESET xxx" ⟶ When Swing x is in action
  "UNDEFINED" ⟶ When undefined function is called to run
- **Preset Label** The Label stored for specific Preset.
- **Alarm Information** This information shows current state of sensor input and relay output. If the Input and output points are ON state it will show a number corresponding to each point. When they are OFF state, '-' will be displayed. Ex) Point 2 & 3 of inputs and 1 of output are ON, OSD will show as below

I : -23- 0 :1-

4. OSD Menu

General Rules of Key Operation for Menu

- The menu items surrounded with < > always has its sub menu.
- For all menu level, to go into sub menu, press **NEAR** key.
- To go to up-one-level menu, press **FAR** key.
- To move from items to item in the menu, use joystick in the **Up/Down** or **Left/Right**.
- To change a value of an item, use **Up/Down** of the joystick in the controller.
- Press **NEAR** key to save values and Press **FAR** key to cancel values.

Main Menu

```
SPEED DOME CAMERA
-----------------------------------------
→<SYSTEM INFORMATION>
  <DISPLAY SETUP>
  <DOME CAMERA SETUP>

  <SYSTEM INITIALIZE>




  EXIT
```

- **SYSTEM INFORMATION** Displays system information and configuration.
- **DISPLAY SETUP** Enable/Disable of OSD display on Main Screen.
- **DOME CAMERA SETUP** Configure various functions of this camera.
- **SYSTEM INITIALIZE** Initializes system configuration and sets all data to factory default configuration.

Display Setup

```
DISPLAY SETUP
-----------------------------------------
→CAMERA ID              ON
  PTZ INFORMATION       AUTO
  ACTION TITLE          AUTO
  PRESET LABEL          AUTO
  ALARM I/O             AUTO
  <SET NORTH DIRECTION>
  <PRIVACY ZONE>

  BACK
  EXIT
```

This menu defines Enable/Disable of OSD display on Main Screen. If an item is set to be AUTO, the item is displayed only when the value of it is changed.

- **CAMERA ID** [ON/OFF]
- **PTZ INFORMATION** [ON/OFF/AUTO]
- **ACTION TITLE** [ON/OFF/AUTO]
- **PRESET LABEL** [ON/OFF/AUTO]
- **ALARM I/O** [ON/OFF/AUTO]

■ Compass Direction Setup

```
SET NORTH DIRECTION
-----------------------------------------




  MOVE TO TARGET POSITION
  [NEAR : SAVE / FAR : CANCEL]
```

Set North to assign compass direction as criteria.
Move camera and press **NEAR** button to save.

4. OSD Menu

Privacy Zone Mask Setup (Models S1465N(P)X and S1665N(P)X Only)

```
PRIVACY ZONE
-----------------------------------------
→MASK ON.               1
                        UNDEFINED
  DISPLAY               OFF
  CLEAR MASK            CANCEL
  <EDIT MASK>




  BACK
  EXIT
```

Select area in image to mask.

- **MASK NO.** [1~8]
  Select Mask number. If the selected mask has already data, camera moves as it was set. Otherwise, "UNDEFINED" will be displayed under "MASK NO".
- **DISPLAY** [ON/OFF]
  Sets if camera makes mask shows or not on images.
- **CLEAR MASK** [CANCEL/OK]
  Deletes data in the selected mask NO.

■ Privacy Zone Area Setup

```
EDIT MASK 1
-----------------------------------------




  MOVE TO TARGET POSITION
  [NEAR : SELECT / FAR : CANCEL]
```

Move camera to the area to mask.
Then the menu to adjust mask size will be displayed.

■ Privacy Zone Size Adjustment

```
EDIT MASK 1
-----------------------------------------


  [◄►:ADJUST MASK WIDTH]
  [▲▼:ADJUST MASK HEIGHT]

  [NEAR : SAVE / FAR : CANCEL]
```

Adjust mask size. Use joystick or arrow buttons to adjust mask size.

- **◄► (Left/Right)** Adjusts mask width.
- **▲▼ (Up/Down)** Adjusts mask height.

4. OSD Menu

Camera Setup (Model S1265N(P))

```
ZOOM CAMERA SETUP
-----------------------------------
→FOCUS MODE              SEMIAUTO
  MAX ZOOM               x220
  FLICKERLESS            OFF
  COLOR                  ON
  LINE LOCK              OFF
  <WHITE BALANCE SETUP>
  <AUTO EXPOSURE SETUP>

  BACK
  EXIT
```

Setup the general functions of 22x optical zoom camera module.

- **FOCUS MODE** [AUTO/MANUAL/SEMIAUTO]
  Sets camera focus mode.
- **MAX ZOOM** [x1 ~ x220]
  Sets the maximum zoom magnification.
- **FLICKERLESS** [ON/OFF]
  When an NTSC camera if used under 50Hz and PAL under 60Hz, flickering may appear on the screen. When this happens, turn FLICKERLESS setting ON. This prevents flickering which happens when the frequency of the power and the frequency of camera are different. When FLICKERLESS is ON, DAY/NIGHT mode goes DAY and Digital Slow Shutter mode goes OFF automatically.
- **COLOR** [ON/OFF]
  Switching color mode to black-white mode
- **LINE LOCK** [ON/OFF]
  If Line lock sync is ON, video signal is synchronized with AC power. Video can be fluctuated after setting is changed.

■ WHITE BALANCE SETUP

```
WHITE BALANCE SETUP
-----------------------------------
→WB MODE                 AUTO
  •RED ADJUST            ---
  •BLUE ADJUST           ---




  BACK
  EXIT
```

- **WB MODE** [AUTO/MANUAL]
  In Manual mode, Red and Blue level can be setup manually.
- **RED ADJUST** [0~255]
- **BLUE ADJUST** [0~255]

4. OSD Menu

■ AUTO EXPOSURE SETUP

```
AUTO EXPOSURE SETUP
-----------------------------------
→BACKLIGHT               OFF
  DAY/NIGHT              AUTO
  SLOW SHUTTER           OFF
  AE MODE                AUTO
  •IRIS LEVEL            ---
  •GAIN LEVEL            ---
  •SHUTTER SPD           ---
  BRIGHTNESS             50
  BACK
  EXIT
```

- **BACKLIGHT** [ON/OFF]
  Sets Backlight Compensation.
- **DAY/NIGHT** [AUTO/DAY/NIGHT]
- **SLOW SHUTTER** [OFF/ 2~128 Field]
  Activates SLOW SHUTTER function when luminance of image(signal) is too dark. It is possible to set up the maximum number of fields piled up one on another by SLOW SHUTTER function. It is only available when DAY/NIGHT mode is DAY.
- **AE MODE** [AUTO/SHUTTER/IRIS/AGC/MANUAL]
  There are five modes of Auto Exposure function. Except AUTO mode, the others can be selected when DAY/NIGHT mode is DAY and Slow Shutter mode is OFF.
- **IRIS LEVEL** [0~255]
  It can be set when AE is in IRIS mode or MANUAL mode.
- **GAIN LEVEL** [0~255]
  It can be set when AE is in AGC mode or MANUAL mode.
- **SHUTTER SPEED** [0~27]
  It can be set when AE is in SHUTTER mode or MANUAL mode. As for setting value, refer to the table below. ***Note1)***
- **BRIGHTNESS** [0~96]
  It can be set when AE is not in MANUAL mode.

Note1) **Shutter Speed Table**

* The values are based on NTSC type Models.

Value	Shutter	Value	Shutter	Value	Shutter	Value	Shutter
0	1/60 sec	7	1/400 sec	14	1/1000 sec	21	1/2500 sec
1	1/125 sec	8	1/450 sec	15	1/1100 sec	22	1/2500 sec
2	1/150 sec	9	1/500 sec	16	1/1300 sec	23	1/3000 sec
3	1/200 sec	10	1/600 sec	17	1/1500 sec	24	1/3500 sec
4	1/250 sec	11	1/700 sec	18	1/1600 sec	25	1/4000 sec
5	1/300 sec	12	1/800 sec	19	1/1800 sec	26	1/6000 sec
6	1/350 sec	13	1/900 sec	20	1/2000 sec	27	1/10000 sec

4. OSD Menu

Camera Setup (Model S1565N(P)(X))

```
ZOOM CAMERA SETUP
-----------------------------------
→FOCUS MODE              SEMIAUTO
  MAX ZOOM               x300
  FLICKERLESS            OFF
  COLOR                  ON
  LINE LOCK              OFF
  <WHITE BALANCE SETUP>
  <AUTO EXPOSURE SETUP>

  BACK
  EXIT
```

Setup the general functions of 30x optical zoom camera module.

- **FOCUS MODE** [AUTO/MANUAL/SEMIAUTO]
  Sets camera focus mode.
- **MAX ZOOM** [x1 ~ x300]
  Sets the maximum zoom magnification.
- **FLICKERLESS** [ON/OFF]
  When an NTSC camera is used under 50Hz and PAL under 60Hz, flickering may appear on the screen. When this happens, turn Flickerless setting on. This prevents flickering which happens when the frequency of the power and the frequency of camera are different.
- **COLOR** [ON/OFF]
  Switching color mode to black-white mode
- **LINE LOCK** [ON/OFF]
  If Line lock sync is ON, video signal is synchronized with AC power. Video can be fluctuated after setting is changed.

■ WHITE BALANCE SETUP

```
WHITE BALANCE SETUP
-----------------------------------
→WB MODE                 AUTO
  •RED ADJUST            ---
  •BLUE ADJUST           ---




  BACK
  EXIT
```

- **WB MODE** [AUTO/MANUAL]
  In Manual mode, Red and Blue level can be setup manually.
- **RED ADJUST** [16~128]
- **BLUE ADJUST** [16~128]

4. OSD Menu

■ AUTO EXPOSURE SETUP

```
AUTO EXPOSURE SETUP
-----------------------------------
→BACKLIGHT               OFF
  DAY/NIGHT              AUTO
  SLOW SHUTTER           OFF
  AE MODE                AUTO
  •IRIS LEVEL            ---
  •GAIN LEVEL            ---
  •SHUTTER SPD           ---
  BRIGHTNESS             50
  BACK
  EXIT
```

- **BACKLIGHT** [OFF/C1/C2/L1/L2/U1/U2/D1/D2/R1/R2]
  Sets Backlight Compensation.
  The reference position and the level of BLC are selectable.
  Refer to the table below. *Note1)*
- **DAY/NIGHT** [AUTO/DAY/NIGHT]
- **SLOW SHUTTER** [[OFF/ 2~128 Field]
  Activates Slow Shutter function when luminance of image (signal) is too dark. It is possible to set up the maximum number of fields piled up one on another by SLOW SHUTTER function. It is only available when DAY/NIGHT mode is DAY.
- **AE MODE** [AUTO/SHUTTER/IRIS/AGC/MANUAL]
  There are five modes of Auto Exposure function.
  Except AUTO mode, the others can be selected when DAY/NIGHT mode is DAY and Slow Shutter mode is OFF.
- **IRIS LEVEL** [0~255]
  It can be set when AE is in IRIS mode or MANUAL mode.
- **GAIN LEVEL** [0~255]
  It can be set when AE is in AGC mode or MANUAL mode.
- **SHUTTER SPEED** [0~27]
  It can be set when AE is in SHUTTER SPEED mode or in MANUAL mode.
  As for setting value, refer to the table below. *Note2)*
- **BRIGHTNESS** [0~96]
  It can be set when AE is not in MANUAL mode .

Note1) **Backlight Compensation**

Value	Description	Value	Description
C1	Low weight at the center of the screen	C2	High weight at the center of the screen
L1	Low weight at the left of the screen	L2	High weight at the left of the screen
U1	Low weight at the upper of the screen	U2	High weight at the upper of the screen
D1	Low weight at the lower of the screen	D2	High weight at the lower of the screen
R1	Low weight at the right of the screen	R2	High weight at the right of the screen

Note2) **Shutter Speed Table**

* The values are based on NTSC type models.

Value	Shutter	Value	Shutter	Value	Shutter	Value	Shutter
0	1/60 sec	7	1/400 sec	14	1/1000 sec	21	1/2500 sec
1	1/125 sec	8	1/450 sec	15	1/1100 sec	22	1/2500 sec
2	1/150 sec	9	1/500 sec	16	1/1300 sec	23	1/3000 sec
3	1/200 sec	10	1/600 sec	17	1/1500 sec	24	1/3500 sec
4	1/250 sec	11	1/700 sec	18	1/1600 sec	25	1/4000 sec
5	1/300 sec	12	1/800 sec	19	1/1800 sec	26	1/6000 sec
6	1/350 sec	13	1/900 sec	20	1/2000 sec	27	1/10000 sec

4. OSD Menu

Camera Setup (Models S1465N(P)X and S1665N(P)X)

```
ZOOM CAMERA SETUP
-----------------------------------
→FOCUS MODE              SEMIAUTO
  DIGITAL ZOOM           ON
  FLICKERLESS            OFF
  COLOR                  ON
  LINE LOCK              OFF
  <WHITE BALANCE SETUP>
  <AUTO EXPOSURE SETUP>

  BACK
  EXIT
```

Setup the general functions of 26x/ 18x optical zoom modules.

- **FOCUS MODE** [AUTO/MANUAL/SEMIAUTO]
  Sets camera focus mode.
- **DIGITAL ZOOM** [ON/OFF]
  Sets digital zoom on or off.
- **FLICKERLESS** [ON/OFF]
  When an NTSC camera is used under 50Hz or PAL under 60Hz, flickering may appear on the screen. When this happens, turn Flickerlees setting ON. This prevents flickering which happens when the frequency of the power and the frequency of camera are different.
- **COLOR** [ON/OFF]
  Switching color mode to black-white mode
- **LINE LOCK** [ON/OFF]
  If Line lock sync is ON, video signal is synchronized with AC power. Video can be fluctuated after setting is changed.

■ WHITE BALANCE SETUP

```
WHITE BALANCE SETUP
-----------------------------------
→WB MODE                 AUTO
  •RED ADJUST            ---
  •BLUE ADJUST           ---




  BACK
  EXIT
```

- **WB MODE** [AUTO/MANUAL]
  In Manual mode, Red and Blue level can be setup manually.
- **RED ADJUST** [0~255]
- **BLUE ADJUST** [0~255]

XPEED Indoor Speed Dome Series

4. OSD Menu

■ AUTO EXPOSURE SETUP

```
AUTO EXPOSURE SETUP
-----------------------------------
→BACKLIGHT               OFF
  DAY/NIGHT              AUTO
  AE MODE                AUTO
  •IRIS LEVEL            ---
  •GAIN LEVEL            ---
  •SHUTTER SPD           ---
  •BRIGHTNESS            ---

  BACK
  EXIT
```

- **BACKLIGHT** [ON/OFF]
  Sets Backlight Compensation.
- **DAY/NIGHT** [AUTO/DAY/NIGHT]
- **AE MODE** [AUTO/SHUTTER/IRIS/GAIN/BRIGHT/MANUAL]
  Selects automatic exposure mode. Each mode appears with adjustable values. When Flickeress mode is ON, AE mode is automatically in SHUTTER SPEED mode.
- **IRIS LEVEL** [CLOSE/F1.6~F28] (Model S1465N(P)X)
  [CLOSE/F1.4~F22] (Model S1665N(P)X)
  It can be set when AE is in IRIS mode or MANUAL mode.
- **GAIN LEVEL** [-3dB~28dB]
  It can be set when AE is in MANUAL mode.
- **SHUTTER SPEED** [1/1sec~1/10000sec]
  It can be set when AE is in SHUTTER SPEED mode or MANUAL mode.
- **BRIGHTNESS** [0~31]
  It can be set when AE is in BRIGHTNESS mode.

4. OSD Menu

Motion Setup

```
MOTION SETUP
-----------------------------------------
→MOTION LOCK            OFF
  PWR UP ACTION         ON
  AUTO FLIP             ON
  JOG MAX SPEED         120/SEC
  JOG DIRECTION         INVERSE
  FRZ IN PRESET         OFF
  <PARK ACTION SETUP>
  <ALARM ACTION SETUP>
  BACK
  EXIT
```

Setup the general functions of Pan/Tilt motions.

- **MOTION LOCK** [ON/OFF]
  If Motion Lock is set to ON, it is impossible to set up and delete Preset, Swing, Pattern and Group.
  It is possible only to run those functions. To set up and elete those functions, enter into OSD menu.
- **PWR UP ACTION** [ON/OFF]
  Refer to "Other Functions" section.
- **AUTO FLIP** [ON/OFF]
  Refer to "Other Functions" section.
- **JOG MAX SPEED** [1°/sec~360°/sec.]
  Sets maximum jog speed. Jog speed is inversely proportional to zoom magnification. As zoom magnification goes up, pan/tilt speed goes down.
- **JOG DIRECTION** [INVERSE/NORMAL]
  If you set this to 'Inverse', the view in the screen is moving same direction with jog tilting. If 'Normal' is selected, the view in the screen is moving reversely.
- **FRZ IN PRESET** [ON/OFF] (Model S1565N(P)(X) Only)
  If "Freeze in preset" function mode is ON, camera starts freezing the image of start point at start point of preset movement. Camera keeps displaying the image of start point during preset movement and does not display the images which camera gets during preset movement.
  As soon as camera stops at preset end point, camera starts displaying live images which it gets at preset end point.
  This function is only available with 30x (EXview) Models.

■ PARK ACTION SETUP

```
PARK ACTION SETUP
-----------------------------------------
→PARK ENABLE            OFF
  WAIT TIME             00:10:00
  PARK ACTION           HOME


  BACK
  EXIT
```

If Park Enable is set to ON, camera runs assigned function automatically if there is no PTZ command during assigned "WAIT TIME".

- **PARK ENABLE** [ON/OFF]
- **WAIT TIME** [1 minute ~ 4 hours]
  The time is displayed with "hh:mm:ss" format and you can change this by 1 min unit.
- **PARK ACTION** [HOME/PRESET/PATTERN/SWING/GROUP]
  If it is set to "HOME", all the functions go back to "HOME" position (PAN, TILT, ZOOM)=(0, 0, x1).

4. OSD Menu

■ ALARM ACTION SETUP

```
ALARM ACTION SETUP
-----------------------------------------
→ALARM 1 ACT            NOT USED
  ALARM 2 ACT           NOT USED
  ALARM 3 ACT           NOT USED
  ALARM 4 ACT           NOT USED


  BACK
  EXIT
```

Sets the preset to move to when the alarm is input.

- **ALARM N ACT** [NOT USED/PRESET 1~128]
  Assign counteraction Preset position to each Alarm input.

  The uppercase "N" indicates the alarm index.

Preset Setup

```
PRESET SETUP
-----------------------------------------
→PRESET NO.             1

  CLR PRESET            CANCEL
  <EDIT SCENE>
  <EDIT LABEL>          LABEL123
  <RELAY OUT>           1-
  CAM ADJUST            GLOBAL

  BACK
  EXIT
```

- **PRESET NO.** [1~128]
  If a selected preset is already defined, camera moves to pre-defined position and preset characteristics such as Label and Relay Outputs show on monitor. If a selected preset is not defined, "UNDEFINED" shows on monitor.
- **CLR PRESET** [CANCEL/OK]
  Delete current Preset data.
- **EDIT SCENE** Redefine current Preset scene position (i.e. PTZ).
- **EDIT LABEL** Edits Label to show on monitor when preset runs.
  MAX. 10 alphabets are allowed.
- **RELAY OUT** Sets the relay output. The figure on the right is current setting value. '-' indicates OFF mode.
  If the relay is shown as figures, it means relay is ON.
- **CAM ADJUST** [GLOBAL/LOCAL]
  WB(White Balance) and AE(Auto Exposure) can be set up independently for each preset. There are 2 modes, "Global" mode & "Local" mode. The Global mode means that WB or AE can be set up totally and simultaneously for all presets in "ZOOM CAMERA SETUP" menu.
  The Local mode means that WB or AE can be set up independently or separately for each preset in each preset setup menu. Each Local WB/AE value should activate correspondingly when camera arrives at each preset location. During jog operation, Global WB/AE value should be applied. All Local WB/AE value should not change although Global WB/AE value changes. If "Local" is selected, Menu to set WB/AE shows on monitor.

4. OSD Menu

■ EDIT PRESET SCENE

```
EDIT SCENE - PRESET 1
-------------------------------------


MOVE TO TARGET POSITION
[NEAR : SAVE / FAR : CANCEL]
```

① Using Joystick, move camera to desired position.

② By pressing **NEAR** key, save current PTZ data.

③ Press **FAR** key to cancel.

■ EDIT PRESET LABEL

```
EDIT LABEL  - PRESET 1
-------------------------------------
[          ]          OK
 ----------           CANCEL
 1234567890
 ABCDEFGHIJ
 KLMNOPQRST
 UVWXYZabcd
 efghijklmn
 opqrstuvwx
 yz<>-/:.←
 ----------
```

① Edits label to show on monitor when camera arrives at presets.
In Edit Label menu, a reverse rectangular is cursor.
As soon as finishing selecting alphabet, cursor moves to the next digit.

```
[          ]
 ↑
(Current Cursor Position)
```

② Using **Left/Right/Up/Down** of joystick, move to an appropriate character from the Character set. To choose that character, press the **NEAR** key.

```
 ----------
 1234567890
 ABCDEFGHIJ
 KLMNOPQRST
 UVWXYZabcd
 efghijklmn
 opqrstuvwx
 yz<>-/:.←
 ----------
```

Space Char. / Back Space Char.

If you want to use blank, choose Space character (" "). If you want to delete a character before, use back space character (" ← ").

③ If you complete the Label editing, move cursor to "OK" and press **NEAR** key to save completed label. To abort current change, move cursor to "Cancel" and press **NEAR** key.

■ EDIT RELAY OUT

```
RELAY OUT - PRESET 1
-------------------------------------
→RELAY OUT 1          OFF
 RELAY OUT 2          OFF




 BACK
 EXIT
```

• **RELAY OUT N** [ON/OFF]
Sets relay output when changing preset position.

The uppercase "N" indicates the number for the preset.

4. OSD Menu

Swing Setup

```
SWING SETUP
-------------------------------------
→SWING NO.          1
 1ST POS.           NOT USED
 2ND POS.           NOT USED

 SWING SPEED        30/SEC
 CLEAR SWIMG        CANCEL


 BACK
 EXIT
```

• **SWING NO.** [1~8]
Selects Swing number to edit. If a selected Swing has not defined, "NOT USED" is displayed in 1st Position and 2nd Position

• **1ST POS.**
2ND POS. [PRESET 1~128]
Set up the 2 position for Swing function. If a selected preset is not defined, "UNDEFINED" will be displayed as shown below.

```
SWING SETUP
-------------------------------------
 SWING NO.          1
 1ST POS.           PRESETS
 2ND POS.           NOT USED
                    UNDEFINED
```

When swing function runs, camera moves from the preset assigned as the 1st point to the preset assigned as the 2nd point in CW(Clockwise) direction. Then camera moves from the preset assigned as the 2nd point to the preset assigned as the 1st point in CCW(Counterclockwise) direction.
In case that the preset assigned as the 1st point is same as the preset assigned as the 2nd point, camera turns on its axis by 360° in CW direction and then it turns on its axis by 360° in CCW direction.

• **SWING SPEED** [1°/sec ~180°/sec]
Sets Swing speed from 1°/sec to 180°/sec.

• **CLEAR SWING** [CANCEL/OK]
Deletes current Swing data.

4. OSD Menu

Pattern Setup

```
PATTERN SETUP
-----------------------------------
→PATTERN NO.          1
                      UNDEFINED
  CLR PATTERN         CANCEL
  <EDIT PATTERN>




  BACK
  EXIT
```

- **PATTERN NO.** [1~4]
  Selects Pattern number to edit. If a selected pattern number is not defined, "UNDEFINED" will be displayed under selected pattern number.
- **CLR PATTERN** [CANCEL/OK]
  Deletes data in current pattern.
- **EDIT PATTERN** Starts editing pattern.

■ EDIT PATTERN

```
EDIT PATTERN 1
-----------------------------------




  MOVE TO TARGET POSITION
  [NEAR : START / FAR : CANCEL]
```

① By using Joystick, move to start position with appropriate zoom. To start pattern recording, press **NEAR** key. To exit this menu, press **FAR** key.

```
EDIT PATTERN 1
□□□
```

4. OSD Menu

```
EDIT GROUP 1
------------------------
 NO ACTION ### DWELL OPT
------------------------
  1 PRESET   1 00:03 360
  2 NONE
  3 NONE
  4 NONE
  5 NONE
------------------------
 SAVE    [◄► :MOVE CURSOR]
 CANCEL  [▲▼ :CHANGE VAL.]
```

④ Set up items such as Action, ###, Dwell and OPT.

```
EDIT GROUP 1
------------------------
 NO ACTION ### DWELL OPT
------------------------
→ 1 PRESET   1 00:03 360
  2 NONE
  3 NONE
  4 NONE
  5 NONE
------------------------
 SAVE     [NEAR:EDIT ACT]
 CANCEL   [FAR :EDIT END]
```

⑤ After finishing setting up a Action, press **NEAR** key to one-upper-level menu(Step ②). Move cursor **Up/Down** to select Action number and repeat Step ② ~ Step ④ to edit selected Group.

```
EDIT GROUP 1
------------------------
 NO ACTION ### DWELL OPT
------------------------
  1 PRESET   1 00:03 360
  2 NONE
  3 NONE
  4 NONE
  5 NONE
------------------------
→SAVE
 CANCEL
```

⑥ After finishing setting up all Actions, press **FAR** key to exit.
Then cursor should be moved to "SAVE". Press **NEAR** key to save data.

4. OSD Menu

System Initialize

```
SYSTEM INITIALIZE
------------------------
▶CLEAR ALL DATA      NO
 • CLR DISPLAY SET   NO
 • CLR CAMERA SET    NO
 • CLR MOTION SET    NO
 • CLR EDIT DATA     NO
 REBOOT CAMERA       NO
 REBOOT SYSTEM       NO

 BACK
 EXIT
```

- **CLEAR ALL DATA** Deletes all configuration data such as display, camera, motion setup and so on.
- **CLR DISPLAY SET** Initializes Display Configuration.
- **CLR CAMERA SET** Initializes Camera Configuration.
- **CLR MOTION SET** Initializes Motion Configuration.
- **CLR EDIT DATA** Deletes Preset Data, Swing Data, Pattern Data and Group Data.
- **REBOOT CAMERA** Reboots Zoom Camera module.
- **REBOOT SYSTEM** Reboots Speed Dome Camera.

■ Initial setting

• Display setting	
Camera ID	ON
PTZ Information	AUTO
Action Title	AUTO
Preset Label	AUTO
Alarm I/O	AUTO
North Direction	Pan 0°
Privacy Zone ♣★	Undefined

• Motion setting	
Motion Lock	OFF
Power Up Action	ON
Auto Flip	ON
Jog Max Speed	120°/sec
Jog Direction	INVERSE
Park Action	OFF
Alarm Action	OF
FRZ IN PRESET ♥	OFF

• Camera setting	
Focus Mode	SemiAuto
Digital Zoom ♣★	ON
Max Zoom	x220◆ / x300♥
Flickerless	OFF
Color	ON
Line Lock	OFF
White Balance	AUTO
Backlight	OFF
Day&Night	AUTO
Slow Shutter ◆♥	OFF
AE Mode	AUTO
Brightness ◆♥	50

•User setting data	
Preset 1~128	Undefined
Swing 1~8	Undefined
Pattern 1~4	Undefined
Group 1~8	Undefined

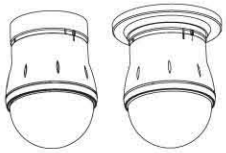
Above functions are only available with the following models;
◆ : S1265N(P) ♥ : S1565N(P)(X) ♣ : S1465N(P)X ★ : S1665N(P)X

5. Specifications

S1565N(P)

Model		S1565N	S1565P
Video Signal		NTSC	PAL
Camera	Image Pick-up Device	1/4" SONY Super HAD CCD	
	Total Pixels	811(H) x 508(V) 410K	795(H) x 596(V) 470K
	Effective Pixels	768(H) x 494(V) 380K	752(H) x 582(V) 440K
	Horizontal Resolution	480 TV Lines	
	S/N Ratio	More than 48 dB	
	Zoom	30x Optical Zoom, 10x Digital Zoom	
	Focal Length	f=3.3(Wide)~99(Tele)mm	
	Aperture	F1.6(Wide)~3.2(Tele)	
	Min. Illumination (30IRE)	1Lux (Color) / 0.5Lux (B/W) / 0.001Lux (DSS)	
	Day & Night	Auto / Day / Night (IR Cut Filter)	
	Focus	Auto / Manual / SemiAuto	
	AE Mode	Auto / Iris / Shutter / Manual	
	White Balance	Auto / Manual(Red, Blue Gain Adjustable)	
	BLC	On / Off	
	Flickerless	On / Off	
	Brightness	Adjustable	
Pan/Tilt	Operation Range	Pan 360° (Endless) / Tilt 90°	
	Operation Speed	Preset : 360°/sec	
		Manual : 1 ~ 360°/sec (inter-locked with zoom extension)	
		Swing : 1~ 180°/sec	
	Preset Setting	127 presets (label setting, individual video setting)	
	Swing Setting	8 swings	
	Pattern Setting	4 pattern (1200 commands / pattern, 5 min)	
	Group Setting	8 groups (20 actions/group)	
	Other Functions	Auto Flip, Auto Parking, Power Up Action	
General	Communication	RS-485	
	Protocol	Pelco-D, Pelco-P Selectable	
	Alarm I/O	4 inputs / 2 outputs	
	OSD Menu	On / Off	
	Input Voltage	24VAC (19VAC~29VAC)	
	Input Power	24VA	
	Fuse	2A	
	Dimension	Dome : Ø149	
		Housing : Ø163.6 x 230.9(H) mm	
	Weight	Approx. 2.5 kg	
	Operational Temperature	0℃ ~ 40℃	

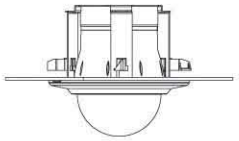
■ Types by installation



Surface Mount

Pendant Mount

Wall Mount



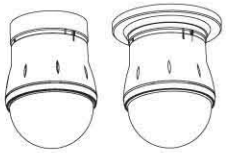
In-Ceiling Mount

5. Specifications

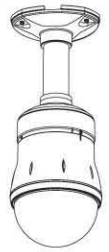
S1565N(P)X

Model		S1565NX	S1565PX
Video Signal		NTSC	PAL
Camera	Image Pick-up Device	1/4" SONY EXview HAD CCD	
	Total Pixels	811(H) x 508(V) 410K	795(H) x 596(V) 470K
	Effective Pixels	768(H) x 494(V) 380K	752(H) x 582(V) 440K
	Horizontal Resolution	480 TV Lines	
	S/N Ratio	More than 48 dB	
	Zoom	30x Optical Zoom, 10x Digital Zoom	
	Focal Length	f=3.3(Wide)~99(Tele)mm	
	Aperture	F1.6(Wide)~3.2(Tele)	
	Min. Illumination (30IRE)	0.5Lux (Color) / 0.3Lux (B/W) / 0.0005Lux (DSS)	
	Day & Night	Auto / Day / Night (IR Cut Filter)	
	Focus	Auto / Manual / SemiAuto	
	AE Mode	Auto / Iris / Shutter / Manual	
	White Balance	Auto / Manual(Red, Blue Gain Adjustable)	
	BLC	On / Off	
	Flickerless	On / Off	
	Brightness	Adjustable	
Pan/Tilt	Operation Range	Pan 360° (Endless) / Tilt 90°	
	Operation Speed	Preset : 360°/sec	
		Manual : 1 ~ 360°/sec (inter-locked with zoom extension)	
		Swing : 1~ 180°/sec	
	Preset Setting	127 presets (label setting, individual video setting)	
	Swing Setting	8 swings	
	Pattern Setting	4 pattern (1200 commands / pattern, 5 min)	
	Group Setting	8 groups (20 actions/group)	
	Other Functions	Auto Flip, Auto Parking, Power Up Action	
General	Communication	RS-485	
	Protocol	Pelco-D, Pelco-P Selectable	
	Alarm I/O	4 inputs / 2 outputs	
	OSD Menu	On / Off	
	Input Voltage	24VAC (19VAC~29VAC)	
	Input Power	24VA	
	Fuse	2A	
	Dimension	Dome : Ø149	
		Housing : Ø163.6 x 230.9(H) mm	
	Weight	Approx. 2.5 kg	
	Operational Temperature	0℃ ~ 40℃	

■ Types by installation

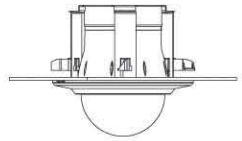


Surface Mount



Pendant Mount

Wall Mount



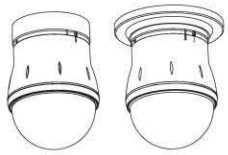
In-Ceiling Mount

5. Specifications

S1465N(P)X

Model		S1465NX	S1465PX
Video Signal		NTSC	PAL
Camera	Image Pick-up Device	1/4" SONY EXview HAD CCD	
	Effective Pixels	768(H) x 494(V) 380K	752(H) x 582(V) 440K
	Horizontal Resolution	470 TV Lines	460 TV Lines
	S/N Ratio	More than 50 dB	
	Zoom	26x Optical Zoom, 12x Digital Zoom	
	Focal Length	f=3.5(Wide)~91(Tele)mm	
	Aperture	F1.6(Wide)~3.8(Tele)	
	Min. Illumination (50IRE)	1.0Lux(Color) / 0.07Lux (Color, DSS) / 0.15Lux (B/W, DSS)	
	Day & Night	Auto / Day / Night (IR Cut Filter)	
	Focus	Auto / Manual / SemiAuto	
	AE Mode	Auto / Iris / Shutter / Manual / Brightness	
	White Balance	Auto / Manual(Red, Blue Gain Adjustable)	
	BLC	On / Off	
	Flickerless	On / Off	
Pan/Tilt	Operation Range	Pan 360° (Endless) / Tilt 90°	
	Operation Speed	Preset : 360°/sec	
		Manual :1 ~ 360°/sec (inter-locked with zoom extension)	
		Swing : 1~ 180°/sec	
	Preset Setting	127 presets (label setting, individual video setting)	
	Swing Setting	8 swings	
	Pattern Setting	4 pattern (1200commands / pattern, 5 min)	
	Group Setting	8 groups (20actions/group)	
	Other Functions	Auto Flip, Auto Parking, Power Up Action	
General	Communication	RS-485	
	Protocol	Pelco-D, Pelco-P Selectable	
	Privacy Zone	8 zones	
	Alarm I/O	4 inputs / 2 outputs	
	OSD Menu	On / Off	
	Input Voltage	24VAC (19VAC~29VAC)	
	Input Power	24VA	
	Fuse	2A	
	Dimension	Dome : Ø149	
		Housing : Ø163.6 x 230.9(H) mm	
	Weight	Approx. 2.5 kg	
	Operational Temperature	0℃ ~ 40℃	

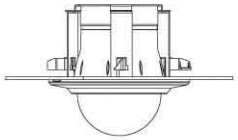
■ Types by installation



Surface Mount

Pendant Mount

Wall Mount



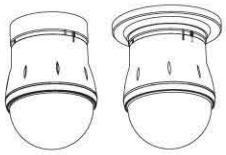
In-Ceiling Mount

5. Specifications

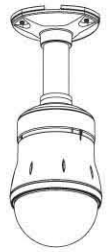
S1265N(P)

Model		S1265NX	S1265PX
Video Signal		NTSC	PAL
Camera	Image Pick-up Device	1/4" SONY Super HAD CCD	
	Total Pixels	811(H) x 508(V) 410K	795(H) x 596(V) 470K
	Effective Pixels	768(H) x 494(V) 380K	752(H) x 582(V) 440K
	Horizontal Resolution	480 TV Lines	
	S/N Ratio	More than 48 dB	
	Zoom	22x Optical Zoom, 10x Digital Zoom	
	Focal Length	f=3.9(Wide)~85.8(Tele)mm	
	Aperture	F1.6(Wide)~5.5(Tele)	
	Min. Illumination (30IRE)	1Lux (Color) / 0.001Lux (DSS)	
	Day & Night	Auto / Day / Night (DSS)	
	Focus	Auto / Manual / SemiAuto	
	AE Mode	Auto / Iris / Shutter / Manual	
	White Balance	Auto / Manual(Red, Blue Gain Adjustable)	
	BLC	On / Off	
	Flickerless	On / Off	
	Brightness	Adjustable	
Pan/Tilt	Operation Range	Pan 360° (Endless) / Tilt 90°	
	Operation Speed	Preset : 360°/sec	
		Manual : 1 ~ 360°/sec (inter-locked with zoom extension)	
		Swing : 1~ 180°/sec	
	Preset Setting	127 presets (label setting, individual video setting)	
	Swing Setting	8 swings	
	Pattern Setting	4 pattern (1200 commands / pattern, 5 min)	
	Group Setting	8 groups (20 actions/group)	
	Other Functions	Auto Flip, Auto Parking, Power Up Action	
General	Communication	RS-485	
	Protocol	Pelco-D, Pelco-P Selectable	
	Alarm I/O	4 inputs / 2 outputs	
	OSD Menu	On / Off	
	Input Voltage	24VAC (19VAC~29VAC)	
	Input Power	24VA	
	Fuse	2A	
	Dimension	Dome : Ø149	
		Housing : Ø163.6 x 230.9(H) mm	
	Weight	Approx. 2.5 kg	
	Operational Temperature	0℃ ~ 40℃	

■ Types by installation

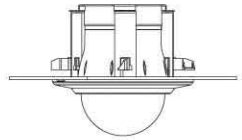


Surface Mount



Pendant Mount

Wall Mount



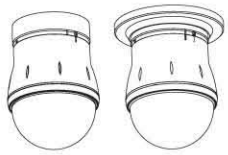
In-Ceiling Mount

5. Specifications

S1665N(P)X

Model		S1665NX	S1665PX
Video Signal		NTSC	PAL
Camera	Image Pick-up Device	1/4" SONY EXview HAD CCD	
	Effective Pixels	768(H) x 494(V) 380K	752(H) x 582(V) 440K
	Horizontal Resolution	470 TV Lines	460 TV Lines
	S/N Ratio	More than 50 dB	
	Zoom	18x Optical Zoom, 12x Digital Zoom	
	Focal Length	f=4.1(Wide)~73.8(Tele)mm	
	Aperture	F1.4(Wide)~3.0(Tele)	
	Min. Illumination (50IRE)	0.7Lux (Color) / 0.1Lux (Color, DSS) / 0.01Lux (B/W, DSS)	
	Day & Night	Auto / Day / Night (IR Cut Filter)	
	Focus	Auto / Manual / SemiAuto	
	AE Mode	Auto / Iris / Shutter / Manual / Brightness	
	White Balance	Auto / Manual(Red, Blue Gain Adjustable)	
	BLC	On / Off	
	Flickerless	On / Off	
Pan/Tilt	Operation Range	Pan 360° (Endless) / Tilt 90°	
	Operation Speed	Preset : 360°/sec	
		Manual :1 ~ 360°/sec (inter-locked with zoom extension)	
		Swing : 1~ 180°/sec	
	Preset Setting	127 presets (label setting, individual video setting)	
	Swing Setting	8 swings	
	Pattern Setting	4 pattern (1200commands / pattern, 5 min)	
	Group Setting	8 groups (20actions/group)	
	Other Functions	Auto Flip, Auto Parking, Power Up Action	
General	Communication	RS-485	
	Protocol	Pelco-D, Pelco-P Selectable	
	Privacy Zone	8 zones	
	Alarm I/O	4 inputs / 2 outputs	
	OSD Menu	On / Off	
	Input Voltage	24VAC (19VAC~29VAC)	
	Input Power	24VA	
	Fuse	2A	
	Dimension	Dome : Ø149	
		Housing : Ø163.6 x 230.9(H) mm	
	Weight	Approx. 2.5 kg	
	Operational Temperature	0℃ ~ 40℃	

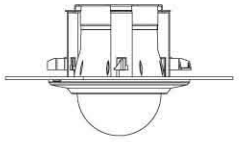
■ **Types by installation**



Surface Mount

Pendant Mount

Wall Mount

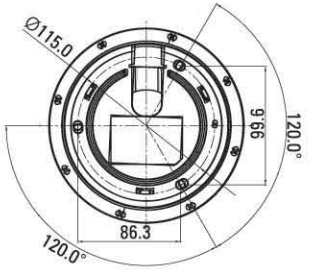


In-Ceiling Mount

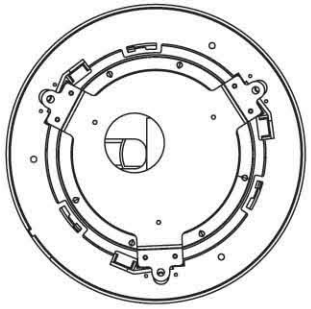
5. Specifications

Dimensional Drawings

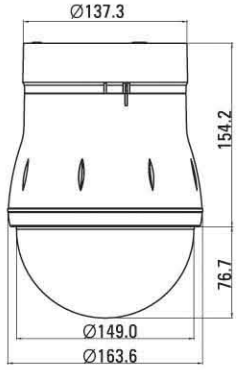
Surface Mount

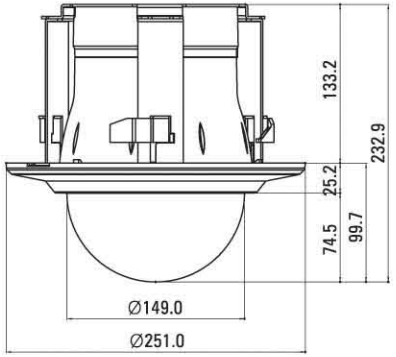


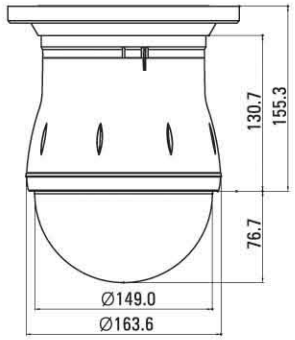
In-Ciling Mount
Weight (Approx.) : 984g



Main Body





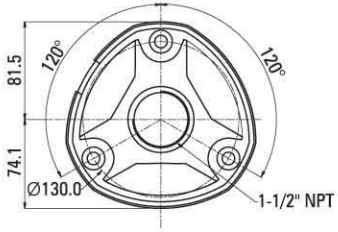


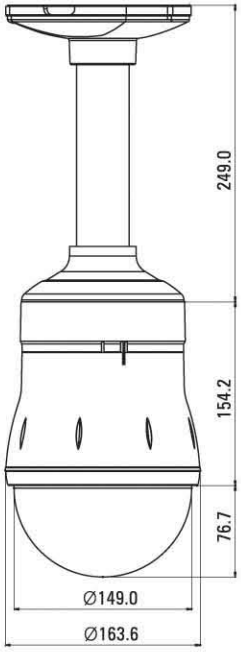
Unit (mm)

5. Specifications

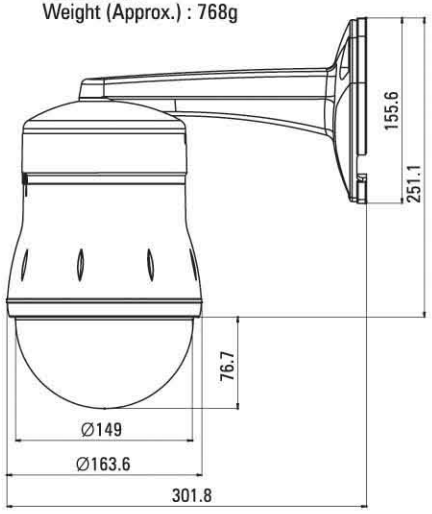
Dimensional Drawings

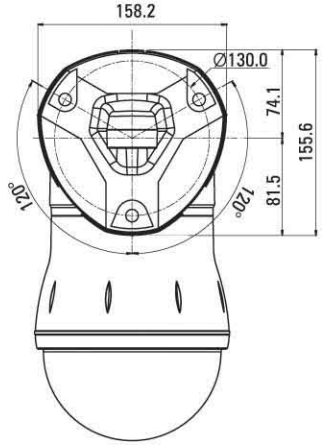
Pendant Mount
Weight (Approx.) : 880g





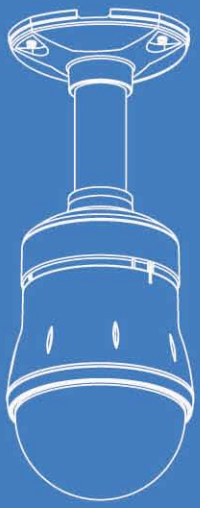
Wall Mount
Weight (Approx.) : 768g





Unit (mm)

MEMO



P/N : 3810-0105B
(Ver.0704E)

Indoor Speed Dome Camera / S1000 Series

Design and specifications are subject to change without notice.